

Title (en)

ENZYME-TRIGGERED CARBON MONOXIDE RELEASING MOLECULES

Title (de)

ENZYMGETRIGGERTE KOHLENMONOXIDFREISETZENDE MOLEKÜLE

Title (fr)

MOLECULES DE LIBERATION DU MONOXYDE DE CARBONE DECLENCHEE PAR UNE ENZYME

Publication

EP 3638222 A4 20210407 (EN)

Application

EP 18817546 A 20180612

Priority

- US 201762518467 P 20170612
- US 2018037123 W 20180612

Abstract (en)

[origin: WO2018231841A1] The present invention generally relates to carbon monoxide releasing compounds and compositions, and their use as carbon monoxide prodrugs. The compounds disclosed herein contain a cyclopentadienone moiety, a non-reactive dienophile, and an enzyme-cleavable tethering moiety connecting the cyclopentadienone moiety to the non-reactive dienophile. Cleavage of the enzyme-cleavable tethering moiety results in conversion of the non-reactive dienophile to a reactive dienophile.

IPC 8 full level

A61K 31/5375 (2006.01); **A61K 31/357** (2006.01); **A61P 7/02** (2006.01); **A61P 9/00** (2006.01); **A61P 29/00** (2006.01); **A61P 31/04** (2006.01); **A61P 35/00** (2006.01); **C07D 321/10** (2006.01)

CPC (source: EP US)

A61K 31/42 (2013.01 - EP); **A61P 9/00** (2018.01 - EP US); **A61P 29/00** (2018.01 - EP); **C07C 225/06** (2013.01 - US); **C07D 265/30** (2013.01 - US); **C07D 321/10** (2013.01 - EP US)

Citation (search report)

[XA] WO 2015191616 A1 20151217 - UNIV GEORGIA STATE RES FOUND [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2018231841 A1 20181220; CN 110944629 A 20200331; CN 110944629 B 20240409; EP 3638222 A1 20200422; EP 3638222 A4 20210407; EP 3638222 B1 20240403; US 11377435 B2 20220705; US 2020115360 A1 20200416

DOCDB simple family (application)

US 2018037123 W 20180612; CN 201880038827 A 20180612; EP 18817546 A 20180612; US 201916712639 A 20191212